

## ABSTRACT

5           The field of the invention is that of onboard terrain anticollision  
systems for aircraft. Collisions with the terrain while the aircraft is fully  
controlled have been and still remain one of the main causes of air disasters.  
Several generations of devices for warning of risk of collision with the terrain  
have been developed for some thirty years now. The most advanced of these  
10 systems comprise means of alarm differing according to the maneuver to be  
performed by the pilot. It is of course vital that the recommended maneuver  
best guarantee the safety of the aircraft. The device according to the  
invention proposes a device comprising the calculation of several different  
safety surfaces or profiles. Their comparisons with the topographic data of  
15 the surrounding terrain make it possible to deduce therefrom the best alarm  
and the best maneuver to be performed to avoid the collision between the  
aircraft and the ground.